BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of the work: **Improvements to Roads and drains at Hosabalunagara Cross Roads in Ward No. 11, Kuvempunagara.**

Estimate Cost: 2500000.00

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	Hosabalunagara Cross Road 1		1	75.00	6.10	0.15	68.63		
	Hosabalunagara Cross Road 2		1	73.00	5.80	0.15	63.51		
	Hosabalunagara Cross Road 3		1	71.00	5.80	0.15	61.77		
	Basic Rate	82.00					**193.91**	199.36	**38658.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material **Page No. 154, Item No. 20.4.2 PWD SR 2016-17**	Cum							
	Hosabalunagara Cross Road 1		1	75.00	6.10	0.15	68.63		
	Hosabalunagara Cross Road 2		1	73.00	5.80	0.15	63.51		
	Hosabalunagara Cross Road 3		1	71.00	5.80	0.15	61.77		
	Basic Rate	1571.00					**193.91**	1665.26	**322902.00**
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	Hosabalunagara Cross Road 1		1	75.00	6.10	0.15	68.63		
	Hosabalunagara Cross Road 2		1	73.00	5.80	0.15	63.51		
	Hosabalunagara Cross Road 3		1	71.00	5.80	0.15	61.77		

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	4867.00					**193.91**	5159.02	**1000360.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
5	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @**	Cum							
	Hosabalunagara Cross Road 1		1	75.00	6.10	0.125	57.19		
	Hosabalunagara Cross Road 2		1	73.00	5.80	0.125	52.93		
	Hosabalunagara Cross Road 3		1	71.00	5.80	0.125	51.48		
	Basic Rate	5197.00					**161.59**	5508.82	**890156.00**
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							
	Sub Total								**2252076.00**
	KRIDL Charges @ 10%								**225208.00**
	Labour Cess @ 1%								**22521.00**
	Add for unforseen and rounding off	L/S							**195.00**
								Total	**2500000.00**

Rupees Twenty Five Lakh(s) Only

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty five lakhs only
Head of A/c P-1878
Div. Ref. No. 83/17-18 Date 14/12/17
AE
EE(BTP) 14/12

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2017-18 24.10 % Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction
Accorded For 25.00 Lakhs
Head of A/C P1878
CER NO : 589/1278 Dt: 02/02/18
TA
CE (WM)